Author Index of Volume 482

Ahlgrèn, M., 279
Ando, W., 131
Antiñolo, A., 93

Batsanov, A.S., 187
Baudry, D., 125
Belyakov, S., 73
Bissinger, P., 151
Bode, K., 285
Boersma, J., 191
Borisova, L., 73
Bravo, J., 147
Breunig, H.J., 253
Brown, D.A., 301
Burrell, A.K., 261, 271

Cameron, M., 227
Canty, A.J., 191
Carpentier, J.-F., 31
Carrillo, F., 93
Casas, J.S., 147
Castanet, Y., 31
Castellano, E.E., 147
Ciriano, M.A., 53
Clark, G.R., 261, 271
Cordero, M.B., 147
Cox, P.J., 221
Csákvári, B., 183

Daran, J.C., 63
De Alencar Simoni, J., 111
De Graaf, W., 191
De Lange, P.P.M., 99
Dias, A.R., 111
Dias, P.B., 111
Drost, C., 285
Duñach, E., 119

Ebert, K.H., 253
El-Gamati, I., 301
Elliott, G.P., 243
Ernsting, J.M., 99

Fajardo, M., 93
Faulkner, C.W., 139
Fenske, D., 85
Ferazin, G., 151
Fraanje, J., 15
Frühauf, H.-W., 99

Garcia-Yuste, S., 93
Gau, H.-M., 67
Georgiev, E.M., 39
Gevorgyan, V., 73
Glass, W.K., 301
Goesmann, H., 85
Goubitz, K., 15
Gowenlock, B.G., 227

Haiduc, I., 253
Heck, J., 81
Hengge, E., 201
Herrmann, W.A., 169
Hiller, W., 151
Hogerheide, M.P., 191
Horn, E., 99

Ingham, S.L., 139

Jäger, C., 285
Janssen, M.D., 191

Kabe, Y., 131
Kakkonen, H.J., 279
Kalck, P., 45
Karsch, H.H., 151
Kazennova, N.B., 187
Keller, H., 63
Khan, M.S., 139
Klingebiel, U., 285
Knausz, D., 183
Kolos, Zs., 183
Kooijman, H., 151
Kreddan, K., 301
Kriebisch, K.-A., 81

Lahoz, F.J., 53
Lang, H., 63
Lassacher, P., 201
Le Boisselier, V., 119
Lee, G.-H., 67
Lemenovskii, D.A., 187
Lewis, J., 139
Liu, L.-K., 67
Long, N.J., 139
Lu, K.-L., 67
Lukevics, E., 73

Mach, K., 231
Markies, B.A., 191
Martinho Simões, J.A., 111
Massa, W., 81
Michalik, M., 85
Monteil, F., 45
Morawietz, M.J.A., 169
Mörtl, M., 183
Mortreux, A., 31

Nief, F., 125
Nikonov, G.I., 187
Noltemeyer, M., 285

Ogasawara, M., 7
Oro, L.A., 53
Oskam, A., 15
Otero, A., 93

Pakkanen, T.A., 279
Parish, R.V., 227
Pérez-Torrente, J.J., 53
Petit, F., 31
Polam, J.R., 1
Polášek, M., 231
Popelis, J., 73
Porter, L.C., 1
Postel, M., 119
Pritzkow, H., 243
Pursiainen, J., 279
Putala, M., 187

Raithby, P.R., 139
Reid, B.D., 207
Ricard, L., 125
Rickard, C.E.F., 261, 271
Roper, W.R., 261, 271
Roundhill, D.M., 39

Saburi, M., 7
Sánchez, A., 147
Schier, A., 151
Schmid, G., 231
Sedmera, P., 231
Shaw, K.F., 207
Siebenlist, R., 99
Silvestru, A., 253
Smeets, W.J.J., 191
Sordo, J., 147
Sowerby, D.B., 253
Spek, A.L., 99, 191
Stadelmann, B., 201
Steigelmann, O., 151
Stewart, S.K., 293
Stone, F.G.A., 243
Stor, G.J., 15
Struchkov, Yu.T., 187
Stufkens, D.J., 15
Stüger, H., 201
Su, C.-J., 67
Szakács, L., 183

Teixeira, C., 111
Thewalt, U., 231
Tillack, A., 85

Author Index of Volume 482

Ahlgrèn, M., 279
Ando, W., 131
Antiñolo, A., 93

Batsanov, A.S., 187
Baudry, D., 125
Belyakov, S., 73
Bissinger, P., 151
Bode, K., 285
Boersma, J., 191
Borisova, L., 73
Bravo, J., 147
Breunig, H.J., 253
Brown, D.A., 301
Burrell, A.K., 261, 271

Cameron, M., 227
Canty, A.J., 191
Carpentier, J.-F., 31
Carrillo, F., 93
Casas, J.S., 147
Castanet, Y., 31
Castellano, E.E., 147
Ciriano, M.A., 53
Clark, G.R., 261, 271
Cordero, M.B., 147
Cox, P.J., 221
Csákvári, B., 183

Daran, J.C., 63
De Alencar Simoni, J., 111
De Graaf, W., 191
De Lange, P.P.M., 99
Dias, A.R., 111
Dias, P.B., 111
Drost, C., 285
Duñach, E., 119

Ebert, K.H., 253
El-Gamati, I., 301
Elliott, G.P., 243
Ernsting, J.M., 99

Fajardo, M., 93
Faulkner, C.W., 139
Fenske, D., 85
Ferazin, G., 151
Fraanje, J., 15
Frühauf, H.-W., 99

Garcia-Yuste, S., 93
Gau, H.-M., 67
Georgiev, E.M., 39
Gevorgyan, V., 73
Glass, W.K., 301
Goesmann, H., 85
Goubitz, K., 15
Gowenlock, B.G., 227

Haiduc, I., 253
Heck, J., 81
Hengge, E., 201
Herrmann, W.A., 169
Hiller, W., 151
Hogerheide, M.P., 191
Horn, E., 99

Ingham, S.L., 139

Jäger, C., 285
Janssen, M.D., 191

Kabe, Y., 131
Kakkonen, H.J., 279
Kalck, P., 45
Karsch, H.H., 151
Kazennova, N.B., 187
Keller, H., 63
Khan, M.S., 139
Klingebiel, U., 285
Knausz, D., 183
Kolos, Zs., 183
Kooijman, H., 151
Kreddan, K., 301
Kriebisch, K.-A., 81

Lahoz, F.J., 53
Lang, H., 63
Lassacher, P., 201
Le Boisselier, V., 119
Lee, G.-H., 67
Lemenovskii, D.A., 187
Lewis, J., 139
Liu, L.-K., 67
Long, N.J., 139
Lu, K.-L., 67
Lukevics, E., 73

Mach, K., 231
Markies, B.A., 191
Martinho Simões, J.A., 111
Massa, W., 81
Michalik, M., 85
Monteil, F., 45
Morawietz, M.J.A., 169
Mörtl, M., 183
Mortreux, A., 31

Nief, F., 125
Nikonov, G.I., 187
Noltemeyer, M., 285

Ogasawara, M., 7
Oro, L.A., 53
Oskam, A., 15
Otero, A., 93

Pakkanen, T.A., 279
Parish, R.V., 227
Pérez-Torrente, J.J., 53
Petit, F., 31
Polam, J.R., 1
Polášek, M., 231
Popelis, J., 73
Porter, L.C., 1
Postel, M., 119
Pritzkow, H., 243
Pursiainen, J., 279
Putala, M., 187

Raithby, P.R., 139
Reid, B.D., 207
Ricard, L., 125
Rickard, C.E.F., 261, 271
Roper, W.R., 261, 271
Roundhill, D.M., 39

Saburi, M., 7
Sánchez, A., 147
Schier, A., 151
Schmid, G., 231
Sedmera, P., 231
Shaw, K.F., 207
Siebenlist, R., 99
Silvestru, A., 253
Smeets, W.J.J., 191
Sordo, J., 147
Sowerby, D.B., 253
Spek, A.L., 99, 191
Stadelmann, B., 201
Steigelmann, O., 151
Stewart, S.K., 293
Stone, F.G.A., 243
Stor, G.J., 15
Struchkov, Yu.T., 187
Stufkens, D.J., 15
Stüger, H., 201
Su, C.-J., 67
Szakács, L., 183

Teixeira, C., 111
Thewalt, U., 231
Tillack, A., 85

Troev, K., 39
Tsumuraya, T., 131

Van der Vis, M., 15
Van Koten, G., 191
Van Wijnkoop, M., 99
Vasapollo, G., 227
Vjater, A., 73

Wadepohl, H., 243
Wang, Y., 67
Wardell, J.L., 221
Ware, D.C., 271
Welch, A.J., 207
Whiting, A., 293
Wocadlo, S., 81
Wolf, A., 243

Xie, S., 39

Zak, Z., 285
Zukerman-Schpector, J., 147

Journal of Organometallic Chemistry, *482* (1994) C4–C10

Subject Index of Volume 482

Acetonitrile
Crystallographic disorder of carbonyl, propyl isocyanide and acetonitrile groups in the structures of $Os_3(CO)_{10}(CNR)(NCMe)$ (K.-L. Lu, L.-K. Liu, C.-J. Su, H.-M. Gau, Y. Wang and G.-H. Lee), 67

Acetylene
Ruthenium(II) σ-acetylide complexes; monomers, dimers and polymers (C.W. Faulkner, S.L. Ingham, M.S. Khan, J. Lewis, N.J. Long and P.R. Raithby), 139

Alkynes
1,3-Dipolar cycloaddition to the C=X–M fragment. 13. Regioselectivity in the reactions of mononuclear iminoketone complexes $Fe(CO)_3(^tBu\text{-}N{=}C(H){-}C(R){=}O)$ (R = Ph, Me) with the asymmetric alkyne methyl propynoate (M. Van Wijnkoop, R. Siebenlist, J.M. Ernsting, P.P.M. De Lange, H.-W. Frühauf, E. Horn and A.L. Spek), 99
Synthesis and coordination chemistry of tellurium alkynes (H. Keller, J.C. Daran and H. Lang), 63

Ambidentate ligands
Phosphinomethanid-Komplexe der Lanthanoide (H.H. Karsch, G. Ferazin, H. Kooijman, O. Steigelmann, A. Schier, P. Bissinger und W. Hiller), 151

Amides
Synthesis and characterization of bridged half-sandwich amides of titanium and zirconium (W.A. Herrmann and M.J.A. Morawietz), 169

Amine
Asymmetrische Katalyse. IV. Hydrosilylierung von Acetophenon mit Pyrrolin-2,5-dion/-modifizierten $[Rh(COD)Cl]_2$-Katalysatoren (A. Tillack, M. Michalik, D. Fenske und H. Goesmann), 85
Synthesis and structural studies of phenyl(iodo)- and methyl(phenyl)palladium(II) complexes of bidentate nitrogen donor ligands (B.A. Markies, A.J. Canty, W. De Graaf, J. Boersma, M.D. Janssen, M.P. Hogerheide, W.J.J. Smeets, A.L. Spek and G. Van Koten), 191

π-aromatic ligands
η^5-Pentabenzylcyclopentadienyl derivatives of titanium (IV), (III), and (II). The crystal structures of $(\eta^5\text{-}C_5H_5)(\eta^5\text{-}C_5Bz_5)TiCl_2$ (Bz = benzyl), $(\eta^5\text{-}C_5H_5)(\eta^5\text{-}C_5Bz_5)TiCl$, and $(\eta^5\text{-}C_5H_5)(\eta^5\text{-}C_5Bz_5)Ti[\eta^2\text{-}(CSiMe_3)_2]$ (G. Schmid, U. Thewalt, M. Polášek, K. Mach and P. Sedmera), 231

Aryl epeoxide cleavage
Bismuth(III)-catalyzed oxidative cleavage of aryl epoxides: substituent effects on the kinetics of the oxidation reaction (V. Le Boisselier, E. Duñach and M. Postel), 119

Aryl Halides
Synthesis of *trans*-arylvinylboronates via a palladium catalysed cross-coupling of a vinylboronate ester with aryl halides (S.K. Stewart and A. Whiting), 293

Benzothiazole-2-thiolato
Bimetallic reactivity: unusual change in the coordination mode of the bridging ligands arising from an oxidative addition process (M.A. Ciriano, J.J. Pérez-Torrente, F.J. Lahoz and L.A. Oro), 53

Bi(III) catalysis
Bismuth(III)-catalyzed oxidative cleavage of aryl epoxides: substituent effects on the kinetics of the oxidation reaction (V. Le Boisselier, E. Duñach and M. Postel), 119

Binuclear complexes
Synthesis of diphosphine-linked binuclear metal–ring carbonyl complexes (D.A. Brown, I. El-Gamati, W.K. Glass and K. Kreddan), 301

Biphatic medium Phosphines
Carbonylation of bromobenzene in a biphasic medium catalysed by water-soluble palladium complexes derived from tris(3-sulphophenyl)phosphine (F. Monteil and P. Kalck), 45

Bipyridine
Synthesis and structural studies of phenyl(iodo)- and methyl(phenyl)palladium(II) complexes of bidentate nitrogen donor ligands (B.A. Markies, A.J. Canty, W. De Graaf, J. Boersma, M.D. Janssen, M.P. Hogerheide, W.J.J. Smeets, A.L. Spek and G. Van Koten), 191

Bismuth
Bismuth(III)-catalyzed oxidative cleavage of aryl epoxides: substituent effects on the kinetics of the oxidation reaction (V. Le Boisselier, E. Duñach and M. Postel), 119

Bond enthalpies
Photomicrocalorimetry: photosubstitution of carbonyl by phosphites in $[Mn(\eta^5\text{-}C_5H_4CH_3)(CO)_3]$ (P.B. Dias, C. Teixeira, A.R. Dias, J. De Alencar Simoni and J.A. Martinho Simões), 111

Boronate
Synthesis of *trans*-arylvinylboronates via a palladium catalysed cross-coupling of a vinylboronate ester with aryl halides (S.K. Stewart and A. Whiting), 293

Bridging ligands
Bimetallic reactivity: unusual change in the coordination mode of the bridging ligands arising from an oxidative addition process (M.A. Ciriano, J.J. Pérez-Torrente, F.J. Lahoz and L.A. Oro), 53

Carbene
Kooperative Wirkung in π-Ligand-verbrückten Zweikernkomplexen. XIV. $[\{CpM(CO)_2\}_2\mu\text{-}(\eta^{1:1}\text{-}Et_2NC{\equiv}CNEt_2)]$ (M = Mo, W), ein zweikerniger Bis(Fischer-Carben)-Komplex mit einem 1,2-Dimetallavierring als zentralem Baustein (J. Heck, K.-A. Kriebisch, W. Massa und S. Wocadlo), 81

Carbon–chlorine bonds
Hydrogenolysis of carbon–chlorine bonds in carbon tetrachloride and trichlorofluoromethane in the presence of catalytic quantities of tris(triphenylphosphine) ruthenium(II) dichloride (S. Xie, E.M. Georgiev, D.M. Roundhill and K. Troev), 39

Carbonyl
1,3-Dipolar cycloaddition to the C=X–M fragment. 13. Regioselectivity in the reactions of mononuclear iminoketone complexes $Fe(CO)_3(^tBu\text{-}N{=}C(H){-}C(R){=}O)$ (R = Ph, Me) with the asymmetric alkyne methyl propynoate (M. Van Wijnkoop, R. Siebenlist, J.M. Ernsting, P.P.M. De Lange, H.-W. Frühauf, E. Horn and A.L. Spek), 99

Crystallographic disorder of carbonyl, propyl isocyanide and acetonitrile groups in the structures of $Os_3(CO)_{10}(CNR)(NCMe)$ (K.-L. Lu, L.-K. Liu, C.-J. Su, H.-M. Gau, Y. Wang and G.-H. Lee), 67

Solid state studies of some nitrosoaromatic iron carbonyls (M. Cameron, B.G. Gowenlock, R.V. Parish and G. Vasapollo), 227

Synthesis and coordination chemistry of tellurium alkynes (H. Keller, J.C. Daran and H. Lang), 63

Synthesis and structural characterization of $[N(PPh_3)_2][H_2Ru_3Rh(CO)_{12}]$ (H.J. Kakkonen, M. Ahlgrèn, T.A. Pakkanen and J. Pursiainen), 279

Synthesis of diphosphine-linked binuclear metal–ring carbonyl complexes (D.A. Brown, I. El-Gamati, W.K. Glass and K. Kreddan), 301

Carbonylation

Carbonylation of bromobenzene in a biphasic medium catalysed by water-soluble palladium complexes derived from tris(3-sulphophenyl)phosphine (F. Monteil and P. Kalck), 45

Mechanistic investigations of palladium-catalysed single and double carbonylation of aryl and vinyl halides by methyl formate (J.-F. Carpentier, Y. Castanet, A. Mortreux and F. Petit), 31

Carbonyls

Coordination of the potentially tridentate ligands 2,6-diacetylpyridine-bis(anil) (dapa) and 2-(2-(2′-methylidenepyridyl)-aminoethyl)pyridine (map) in the complexes *fac*-$BrMn(CO)_3L$, *fac*-$(CO)_5MM'(CO)_3L$ (M, M′ = Mn, Re; L = dapa, map) and their photoproducts. The crystal structure of $BrMn(CO)_2$(N,N,N-dapa) (G.J. Stor, M. Van der Vis, D.J. Stufkens, A. Oskam, J. Fraanje and K. Goubitz), 15

Carboranes

Synthesis and characterisation of metal complexes of ether carbaboranes. Molecular structures of d^6 ML_3, d^8 ML_2 and d^{10} ML complexes of mono- and di-ether C_2B_9 carbaborane ligands, showing the progressive importance of secondary M...O bonding (K.F. Shaw, B.D. Reid and A.J. Welch), 207

Carbyne

Hydroboration of carbon–tungsten triple bonds: crystal structures of the η^3-benzyl complexes $(\eta\text{-}C_5H_5)(CO)_2W\{\eta^3\text{-}CH[B(C_2H_5)_2]C_6H_4Me\text{-}4\}$ and $(\eta\text{-}C_5Me_5)(CO)_2W\{\eta^3\text{-}CH[B(C_2H_5)_2]C_6H_4Me\text{-}4\}$ (H. Wadepohl, G.P. Elliott, H. Pritzkow, F.G.A. Stone and A. Wolf), 243

Catalysis

Asymmetrische Katalyse. IV. Hydrosilylierung von Acetophenon mit Pyrrolin-2,5-dion/-modifizierten $[Rh(COD)Cl]_2$-Katalysatoren (A. Tillack, M. Michalik, D. Fenske und H. Goesmann), 85

Mechanistic investigations of palladium-catalysed single and double carbonylation of aryl and vinyl halides by methyl formate (J.-F. Carpentier, Y. Castanet, A. Mortreux and F. Petit), 31

Chromium

Synthesis of diphosphine-linked binuclear metal–ring carbonyl complexes (D.A. Brown, I. El-Gamati, W.K. Glass and K. Kreddan), 301

Cluster

Synthesis and structural characterization of $[N(PPh_3)_2][H_2Ru_3Rh(CO)_{12}]$ (H.J. Kakkonen, M. Ahlgrèn, T.A. Pakkanen and J. Pursiainen), 279

Cobalt

Synthesis and coordination chemistry of tellurium alkynes (H. Keller, J.C. Daran and H. Lang), 63

Coupling

Synthesis of *trans*-arylvinylboronates via a palladium catalysed cross-coupling of a vinylboronate ester with aryl halides (S.K. Stewart and A. Whiting), 293

Crystallography

Crystallographic disorder of carbonyl, propyl isocyanide and acetonitrile groups in the structures of $Os_3(CO)_{10}(CNR)(NCMe)$ (K.-L. Lu, L.-K. Liu, C.-J. Su, H.-M. Gau, Y. Wang and G.-H. Lee), 67

Crystal structure

1,3-Dipolar cycloaddition to the C=X–M fragment. 13. Regioselectivity in the reactions of mononuclear iminoketone complexes $Fe(CO)_3(^tBu\text{-}N{=}C(H)\text{–}C(R){=}O)$ (R = Ph, Me) with the asymmetric alkyne methyl propynoate (M. Van Wijnkoop, R. Siebenlist, J.M. Ernsting, P.P.M. De Lange, H.-W. Frühauf, E. Horn and A.L. Spek), 99

Coordination of the potentially tridentate ligands 2,6-diacetylpyridine-bis(anil) (dapa) and 2-(2-(2′-methylidenepyridyl)-aminoethyl)pyridine (map) in the complexes *fac*-$BrMn(CO)_3L$, *fac*-$(CO)_5MM'(CO)_3L$ (M, M′ = Mn, Re; L = dapa, map) and their photoproducts. The crystal structure of $BrMn(CO)_2$(N,N,N-dapa) (G.J. Stor, M. Van der Vis, D.J. Stufkens, A. Oskam, J. Fraanje and K. Goubitz), 15

Is electrophilic substitution possible in the coordinated cyclopentadienyl ligand of early transition metal metallocene complexes? Molecular structure of binuclear nitrene niobocene complex $[(C_5H_4C(COOEt){=}N\text{-}\mu\text{-}N)\text{-}(C_5H_5)Nb]_2$ (G.I. Nikonov, M. Putala, N.B. Kazennova, D.A. Lemenovskii, A.S. Batsanov and Yu.T. Struchkov), 187

New aryltellurium(II) diorganophosphinodithioates. Crystal structure of red (294 K) and yellow (173 K) $^1_\infty[PhTeS(S)PPh_2]$, a supramolecular polymer displaying an unusual coordination pattern of the phosphinodithioato ligand (A. Silvestru, I. Haiduc, K.H. Ebert, H.J. Breunig and D.B. Sowerby), 253

Reactions of coordinated tetrafluoroethylene with halogens. Synthesis of σ-bonded halotetrafluoroethyl complexes of ruthenium(II) and osmium(II) and the structure of $OsI(C_2F_4I)(CO)_2(PPh_3)_2$ (A.K. Burrell, G.R. Clark, C.E.F. Rickard, W.R. Roper and D.C. Ware), 271

Structures of 4-tolyl 2-(triphenylstannyl)ethyl sulphone and 4-tolyl 4-(triphenylstannyl)butyl sulphone (P.J. Cox and J.L. Wardell), 221

Synthesis and characterisation of metal complexes of ether carbaboranes. Molecular structures of d^6 ML_3, d^8 ML_2 and d^{10} ML complexes of mono- and di-ether C_2B_9 carbaborane ligands, showing the progressive importance of secondary M...O bonding (K.F. Shaw, B.D. Reid and A.J. Welch), 207

Synthesis and coordination chemistry of tellurium alkynes (H. Keller, J.C. Daran and H. Lang), 63

Synthesis and structural characterization of $[N(PPh_3)_2][H_2Ru_3Rh(CO)_{12}]$ (H.J. Kakkonen, M. Ahlgrèn, T.A. Pakkanen and J. Pursiainen), 279

Synthesis and structural studies of phenyl(iodo)- and methyl(phenyl)palladium(II) complexes of bidentate nitrogen donor ligands (B.A. Markies, A.J. Canty, W. De Graaf, J. Boersma, M.D. Janssen, M.P. Hogerheide, W.J.J. Smeets, A.L. Spek and G. Van Koten), 191

Synthesis and structure of silylmethylsilatranes $RR'R''SiCH_2Si(OCH_2CH_2)_3N$ (V. Gevorgyan, L. Borisova, A. Vjater, J. Popelis, S. Belyakov and E. Lukevics), 73

Tetrafluoroethyl complexes of iridium(III) derived from a tetrafluoroethylene complex of iridium(I). A study of α-fluoride abstraction and determination of the structure of $IrCl_2(CF_2CF_2Cl)(CO)(PPh_3)_2$ (A.K. Burrell, G.R. Clark, C.E.F. Rickard and W.R. Roper), 261

CS_2 complexes
Studies of the reactivity towards insertion and electrophilic processes of Nb–H and Nb(η^2-CS_2) moieties of bis(trimethylsilylcyclopentadienyl)niobium complexes (A. Antiñolo, F. Carrillo, M. Fajardo, S. Garcia-Yuste and A. Otero), 93

Cycloaddition
1,3-Dipolar cycloaddition to the C=X–M fragment. 13. Regioselectivity in the reactions of mononuclear iminoketone complexes $Fe(CO)_3$(^{t}Bu-N=C(H)–C(R)=O) (R = Ph, Me) with the asymmetric alkyne methyl propynoate (M. Van Wijnkoop, R. Siebenlist, J.M. Ernsting, P.P.M. De Lange, H.-W. Frühauf, E. Horn and A.L. Spek), 99

Cyclopentadienyl
η^5-Pentabenzylcyclopentadienyl derivatives of titanium (IV), (III), and (II). The crystal structures of (η^5-C_5H_5)(η^5-C_5Bz_5)$TiCl_2$ (Bz = benzyl), (η^5-C_5H_5)(η^5-C_5Bz_5)TiCl, and (η^5-C_5H_5)(η^5-C_5Bz_5)Ti[η^2-$(CSiMe_3)_2$] (G. Schmid, U. Thewalt, M. Polášek, K. Mach and P. Sedmera), 231
Is electrophilic substitution possible in the coordinated cyclopentadienyl ligand of early transition metal metallocene complexes? Molecular structure of binuclear nitrene niobocene complex [(C_5H_4C(COOEt)=*N*-μ-*N*)-(C_5H_5)Nb]$_2$ (G.I. Nikonov, M. Putala, N.B. Kazennova, D.A. Lemenovskii, A.S. Batsanov and Yu.T. Struchkov), 187

Cyclopentadienyl complexes
Studies of the reactivity towards insertion and electrophilic processes of Nb–H and Nb(η^2-CS_2) moieties of bis(trimethylsilylcyclopentadienyl)niobium complexes (A. Antiñolo, F. Carrillo, M. Fajardo, S. Garcia-Yuste and A. Otero), 93

Cyclotadiene
Formation of stable cationic (cyclooctadiene)Rhodium(I) complexes containing thiophene ligands (J.R. Polam and L.C. Porter), 1

Diacetyl complex
Bimetallic reactivity: unusual change in the coordination mode of the bridging ligands arising from an oxidative addition process (M.A. Ciriano, J.J. Pérez-Torrente, F.J. Lahoz and L.A. Oro), 53

Dihydrogen
Effects of chelate ring rigidity on intramolecular hydrogen exchange in hydrido(dihydrogen)bis(diphosphine)ruthenium(II) ions [RuH(η^2-H_2)(diphosphine)$_2$]$^+$ (diphosphine = binap and dpbp) (M. Ogasawara and M. Saburi), 7

Diimine
Coordination of the potentially tridentate ligands 2,6-diacetylpyridine-bis(anil) (dapa) and 2-(2-(2′-methylidenepyridyl)-aminoethyl)pyridine (map) in the complexes *fac*-$BrMn(CO)_3$L, *fac*-$(CO)_5MM'(CO)_3$L (M, M′ = Mn, Re; L = dapa, map) and their photoproducts. The crystal structure of $BrMn(CO)_2$(N,N,N-dapa) (G.J. Stor, M. Van der Vis, D.J. Stufkens, A. Oskam, J. Fraanje and K. Goubitz), 15

Diphosphine
Effects of chelate ring rigidity on intramolecular hydrogen exchange in hydrido(dihydrogen)bis(diphosphine)ruthenium(II) ions [RuH(η^2-H_2)(diphosphine)$_2$]$^+$ (diphosphine = binap and dpbp) (M. Ogasawara and M. Saburi), 7
Synthesis of diphosphine-linked binuclear metal–ring carbonyl complexes (D.A. Brown, I. El-Gamati, W.K. Glass and K. Kreddan), 301

Disorder
Crystallographic disorder of carbonyl, propyl isocyanide and acetonitrile groups in the structures of $Os_3(CO)_{10}$(CNR)(NCMe) (K.-L. Lu, L.-K. Liu, C.-J. Su, H.-M. Gau, Y. Wang and G.-H. Lee), 67

Fluorine
Tetrafluoroethyl complexes of iridium(III) derived from a tetrafluoroethylene complex of iridium(I). A study of α-fluoride abstraction and determination of the structure of $IrCl_2$-(CF_2CF_2Cl)(CO)(PPh_3)$_2$ (A.K. Burrell, G.R. Clark, C.E.F. Rickard and W.R. Roper), 261

Fluoroalkyl
Tetrafluoroethyl complexes of iridium(III) derived from a tetrafluoroethylene complex of iridium(I). A study of α-fluoride abstraction and determination of the structure of $IrCl_2$-(CF_2CF_2Cl)(CO)(PPh_3)$_2$ (A.K. Burrell, G.R. Clark, C.E.F. Rickard and W.R. Roper), 261

Germanium
Cyclotrigermanes. Synthesis and thermal decomposition (T. Tsumuraya, Y. Kabe and W. Ando), 131
Synthesis and structure of silylmethylsilatranes RR′R″$SiCH_2$-$\overline{Si(OCH_2CH_2)_3N}$ (V. Gevorgyan, L. Borisova, A. Vjater, J. Popelis, S. Belyakov and E. Lukevics), 73

Group 5
Is electrophilic substitution possible in the coordinated cyclopentadienyl ligand of early transition metal metallocene complexes? Molecular structure of binuclear nitrene niobocene complex [(C_5H_4C(COOEt)=*N*-μ-*N*)-(C_5H_5)Nb]$_2$ (G.I. Nikonov, M. Putala, N.B. Kazennova, D.A. Lemenovskii, A.S. Batsanov and Yu.T. Struchkov), 187

Hammet correlation
Bismuth(III)-catalyzed oxidative cleavage of aryl epoxides: substituent effects on the kinetics of the oxidation reaction (V. Le Boisselier, E. Duñach and M. Postel), 119

Homogeneous catalysis
Hydrogenolysis of carbon–chlorine bonds in carbon tetrachloride and trichlorofluoromethane in the presence of catalytic quantities of tris(triphenylphosphine) ruthenium(II) dichloride (S. Xie, E.M. Georgiev, D.M. Roundhill and K. Troev), 39

Hydrazine
Lithium-bis(silyl)hydrazide, Tris(silyl)hydrazine und 1,2-Diaza-3,5-disilacyclopentane (K. Bode, C. Drost, C. Jäger, U. Klingebiel, M. Noltemeyer und Z. Zak), 285

Hydride
Effects of chelate ring rigidity on intramolecular hydrogen exchange in hydrido(dihydrogen)bis(diphosphine)ruthenium(II) ions [RuH(η^2-H_2)(diphosphine)$_2$]$^+$ (diphosphine = binap and dpbp) (M. Ogasawara and M. Saburi), 7

Hydrides
Studies of the reactivity towards insertion and electrophilic processes of Nb–H and Nb(η^2-CS_2) moieties of bis(trimethylsilylcyclopentadienyl)niobium complexes (A. Antiñolo, F. Carrillo, M. Fajardo, S. Garcia-Yuste and A. Otero), 93

Hydroboration
Hydroboration of carbon–tungsten triple bonds: crystal structures of the η^3-benzyl complexes (η-C_5H_5)$(CO)_2$W{η^3-CH-[$B(C_2H_5)_2$]C_6H_4Me-4} and (η-C_5Me_5)$(CO)_2$W{η^3-CH-[$B(C_2H_5)_2$]C_6H_4Me-4} (H. Wadepohl, G.P. Elliott, H. Pritzkow, F.G.A. Stone and A. Wolf), 243

Hydrogen bonding
Synthesis and structure of silylmethylsilatranes RR′R″$SiCH_2$-$\overline{Si(OCH_2CH_2)_3N}$ (V. Gevorgyan, L. Borisova, A. Vjater, J. Popelis, S. Belyakov and E. Lukevics), 73

Hydrogen exchange
Effects of chelate ring rigidity on intramolecular hydrogen exchange in hydrido(dihydrogen)bis(diphosphine)ruthenium(II) ions [RuH(η^2-H_2)(diphosphine)$_2$]$^+$ (diphosphine = binap and dpbp) (M. Ogasawara and M. Saburi), 7

Hydrogenolysis
Hydrogenolysis of carbon–chlorine bonds in carbon tetrachloride and trichlorofluoromethane in the presence of catalytic quantities of tris(triphenylphosphine) ruthenium(II) dichloride (S. Xie, E.M. Georgiev, D.M. Roundhill and K. Troev), 39

Insertion
Studies of the reactivity towards insertion and electrophilic processes of Nb–H and Nb(η^2-CS_2) moieties of bis(trimethylsilylcyclopentadienyl)niobium complexes (A. Antiñolo, F. Carrillo, M. Fajardo, S. Garcia-Yuste and A. Otero), 93

Iridium
Tetrafluoroethyl complexes of iridium(III) derived from a tetrafluoroethylene complex of iridium(I). A study of α-fluoride abstraction and determination of the structure of $IrCl_2$-(CF_2CF_2Cl)(CO)(PPh_3)$_2$ (A.K. Burrell, G.R. Clark, C.E.F. Rickard and W.R. Roper), 261

Iron
1,3-Dipolar cycloaddition to the C=X–M fragment. 13. Regioselectivity in the reactions of mononuclear iminoketone complexes $Fe(CO)_3$(^{t}Bu-N=C(H)–C(R)=O) (R = Ph, Me) with the asymmetric alkyne methyl propynoate (M. Van Wijnkoop, R. Siebenlist, J.M. Ernsting, P.P.M. De Lange, H.-W. Frühauf, E. Horn and A.L. Spek), 99
Oligosilane mit Fe- oder Mo-Komplexsubstituenten (B. Stadelmann, P. Lassacher, H. Stüger und E. Hengge), 201
Solid state studies of some nitrosoaromatic iron carbonyls (M. Cameron, B.G. Gowenlock, R.V. Parish and G. Vasapollo), 227
Synthesis of diphosphine-linked binuclear metal–ring carbonyl complexes (D.A. Brown, I. El-Gamati, W.K. Glass and K. Kreddan), 301

Isocyanide
Crystallographic disorder of carbonyl, propyl isocyanide and acetonitrile groups in the structures of $Os_3(CO)_{10}$(CNR)(NCMe) (K.-L. Lu, L.-K. Liu, C.-J. Su, H.-M. Gau, Y. Wang and G.-H. Lee), 67

Isomerism
Lithium-bis(silyl)hydrazide, Tris(silyl)hydrazine und 1,2-Diaza-3,5-disilacyclopentane (K. Bode, C. Drost, C. Jäger, U. Klingebiel, M. Noltemeyer und Z. Zak), 285

Ketone
Asymmetrische Katalyse. IV. Hydrosilylierung von Acetophenon mit Pyrrolin-2,5-dion/-modifizierten [Rh(COD)Cl]$_2$-Katalysatoren (A. Tillack, M. Michalik, D. Fenske und H. Goesmann), 85

Lanthanides
2,4-Dimethylpentadienyl complexes of neodymium, samarium and ytterbium (D. Baudry, F. Nief and L. Ricard), 125

Lanthanoids
Phosphinomethanid-Komplexe der Lanthanoide (H.H. Karsch, G. Ferazin, H. Kooijman, O. Steigelmann, A. Schier, P. Bissinger und W. Hiller), 151

Lanthanum
Synthesis and characterisation of metal complexes of ether carbaboranes. Molecular structures of d^6 ML_3, d^8 ML_2 and d^{10} ML complexes of mono- and di-ether C_2B_9 carbaborane ligands, showing the progressive importance of secondary M...O bonding (K.F. Shaw, B.D. Reid and A.J. Welch), 207

Linked cyclopentadienyl
Synthesis and characterization of bridged half-sandwich amides of titanium and zirconium (W.A. Herrmann and M.J.A. Morawietz), 169

Lithium
Lithium-bis(silyl)hydrazide, Tris(silyl)hydrazine und 1,2-Diaza-3,5-disilacyclopentane (K. Bode, C. Drost, C. Jäger, U. Klingebiel, M. Noltemeyer und Z. Zak), 285

Manganese
Coordination of the potentially tridentate ligands 2,6-diacetylpyridine-bis(anil) (dapa) and 2-(2-(2′-methylidenepyridyl)-aminoethyl)pyridine (map) in the complexes *fac*-$BrMn(CO)_3L$, *fac*-$(CO)_5MM'(CO)_3L$ (M, M′ = Mn, Re; L = dapa, map) and their photoproducts. The crystal structure of $BrMn(CO)_2$(N,N,N-dapa) (G.J. Stor, M. Van der Vis, D.J. Stufkens, A. Oskam, J. Fraanje and K. Goubitz), 15
Photomicrocalorimetry: photosubstitution of carbonyl by phosphites in [Mn(η^5-$C_5H_4CH_3$)(CO)$_3$] (P.B. Dias, C. Teixeira, A.R. Dias, J. De Alencar Simoni and J.A. Martinho Simões), 111
Synthesis of diphosphine-linked binuclear metal–ring carbonyl complexes (D.A. Brown, I. El-Gamati, W.K. Glass and K. Kreddan), 301

Mechanism
Carbonylation of bromobenzene in a biphasic medium catalysed by water-soluble palladium complexes derived from tris(3-sulphophenyl)phosphine (F. Monteil and P. Kalck), 45

Molybdenum
Kooperative Wirkung in π-Ligand-verbrückten Zweikernkomplexen. XIV. [{CpM(CO_2)$_2$$\mu$-($\eta^{1:1}$-$Et_2NC{\equiv}CNEt_2$)] (M = Mo, W), ein zweikerniger Bis(Fischer-Carben)-Komplex mit einem 1,2-Dimetallavierring als zentralem Baustein (J. Heck, K.-A. Kriebisch, W. Massa und S. Wocadlo), 81
Oligosilane mit Fe- oder Mo-Komplexsubstituenten (B. Stadelmann, P. Lassacher, H. Stüger und E. Hengge), 201

Mössbauer spectra
Solid state studies of some nitrosoaromatic iron carbonyls (M. Cameron, B.G. Gowenlock, R.V. Parish and G. Vasapollo), 227

Neodymium
2,4-Dimethylpentadienyl complexes of neodymium, samarium and ytterbium (D. Baudry, F. Nief and L. Ricard), 125

Niobium
Is electrophilic substitution possible in the coordinated cyclopentadienyl ligand of early transition metal metallocene complexes? Molecular structure of binuclear nitrene niobocene complex [(C_5H_4C(COOEt)=*N*-μ-*N*)-(C_5H_5)Nb]$_2$ (G.I. Nikonov, M. Putala, N.B. Kazennova, D.A. Lemenovskii, A.S. Batsanov and Yu.T. Struchkov), 187
Studies of the reactivity towards insertion and electrophilic processes of Nb–H and Nb(η^2-CS_2) moieties of bis(trimethylsilylcyclopentadienyl)niobium complexes (A. Antiñolo, F. Carrillo, M. Fajardo, S. Garcia-Yuste and A. Otero), 93

Nitroso compound
Solid state studies of some nitrosoaromatic iron carbonyls (M. Cameron, B.G. Gowenlock, R.V. Parish and G. Vasapollo), 227

Nuclear magnetic resonance
Effects of chelate ring rigidity on intramolecular hydrogen exchange in hydrido(dihydrogen)bis(diphosphine)ruthenium(II) ions [RuH(η^2-H_2)(diphosphine)$_2$]$^+$ (diphosphine = binap and dpbp) (M. Ogasawara and M. Saburi), 7
Solid state studies of some nitrosoaromatic iron carbonyls (M. Cameron, B.G. Gowenlock, R.V. Parish and G. Vasapollo), 227

Oligosilanes
Oligosilane mit Fe- oder Mo-Komplexsubstituenten (B. Stadelmann, P. Lassacher, H. Stüger und E. Hengge), 201
Optical resolution
Asymmetrische Katalyse. IV. Hydrosilylierung von Acetophenon mit Pyrrolin-2,5-dion/-modifizierten $[Rh(COD)Cl]_2$-Katalysatoren (A. Tillack, M. Michalik, D. Fenske und H. Goesmann), 85
Organotin
Structures of 4-tolyl 2-(triphenylstannyl)ethyl sulphone and 4-tolyl 4-(triphenylstannyl)butyl sulphone (P.J. Cox and J.L. Wardell), 221
Osmium
Crystallographic disorder of carbonyl, propyl isocyanide and acetonitrile groups in the structures of $Os_3(CO)_{10}(CNR)(NCMe)$ (K.-L. Lu, L.-K. Liu, C.-J. Su, H.-M. Gau, Y. Wang and G.-H. Lee), 67
Reactions of coordinated tetrafluoroethylene with halogens. Synthesis of σ-bonded halotetrafluoroethyl complexes of ruthenium(II) and osmium(II) and the structure of $OsI(C_2F_4I)(CO)_2(PPh_3)_2$ (A.K. Burrell, G.R. Clark, C.E.F. Rickard, W.R. Roper and D.C. Ware), 271
Oxidation
Bismuth(III)-catalyzed oxidative cleavage of aryl epoxides: substituent effects on the kinetics of the oxidation reaction (V. Le Boisselier, E. Duñach and M. Postel), 119
Oxidative addition
Bimetallic reactivity: unusual change in the coordination mode of the bridging ligands arising from an oxidative addition process (M.A. Ciriano, J.J. Pérez-Torrente, F.J. Lahoz and L.A. Oro), 53
Synthesis and structural studies of phenyl(iodo)- and methyl(phenyl)palladium(II) complexes of bidentate nitrogen donor ligands (B.A. Markies, A.J. Canty, W. De Graaf, J. Boersma, M.D. Janssen, M.P. Hogerheide, W.J.J. Smeets, A.L. Spek and G. Van Koten), 191

Palladium
Carbonylation of bromobenzene in a biphasic medium catalysed by water-soluble palladium complexes derived from tris(3-sulphophenyl)phosphine (F. Monteil and P. Kalck), 45
Mechanistic investigations of palladium-catalysed single and double carbonylation of aryl and vinyl halides by methyl formate (J.-F. Carpentier, Y. Castanet, A. Mortreux and F. Petit), 31
Synthesis and structural studies of phenyl(iodo)- and methyl(phenyl)palladium(II) complexes of bidentate nitrogen donor ligands (B.A. Markies, A.J. Canty, W. De Graaf, J. Boersma, M.D. Janssen, M.P. Hogerheide, W.J.J. Smeets, A.L. Spek and G. Van Koten), 191
Synthesis of *trans*-arylvinylboronates via a palladium catalysed cross-coupling of a vinylboronate ester with aryl halides (S.K. Stewart and A. Whiting), 293
Palladum
Synthesis and characterisation of metal complexes of ether carbaboranes. Molecular structures of d^6 ML_3, d^8 ML_2 and d^{10} ML complexes of mono- and di-ether C_2B_9 carbaborane ligands, showing the progressive importance of secondary M...O bonding (K.F. Shaw, B.D. Reid and A.J. Welch), 207
Pentadienyl
2,4-Dimethylpentadienyl complexes of neodymium, samarium and ytterbium (D. Baudry, F. Nief and L. Ricard), 125
Phosphine
Solid state studies of some nitrosoaromatic iron carbonyls (M. Cameron, B.G. Gowenlock, R.V. Parish and G. Vasapollo), 227
Phosphinodithioates
New aryltellurium(II) diorganophosphinodithioates. Crystal structure of red (294 K) and yellow (173 K) $^1_\infty[PhTeS(S)PPh_2]$, a supramolecular polymer displaying an unusual coordination pattern of the phosphinodithioato ligand (A. Silvestru, I. Haiduc, K.H. Ebert, H.J. Breunig and D.B. Sowerby), 253
Phosphinomethanides
Phosphinomethanid-Komplexe der Lanthanoide (H.H. Karsch, G. Ferazin, H. Kooijman, O. Steigelmann, A. Schier, P. Bissinger und W. Hiller), 151
Phosphite
Photomicrocalorimetry: photosubstitution of carbonyl by phosphites in $[Mn(\eta^5\text{-}C_5H_4CH_3)(CO)_3]$ (P.B. Dias, C. Teixeira, A.R. Dias, J. De Alencar Simoni and J.A. Martinho Simões), 111
Photochemistry
Coordination of the potentially tridentate ligands 2,6-diacetylpyridine-bis(anil) (dapa) and 2-(2-(2′-methylidenepyridyl)-aminoethyl)pyridine (map) in the complexes *fac*-$BrMn(CO)_3L$, *fac*-$(CO)_5MM'(CO)_3L$ (M, M′ = Mn, Re; L = dapa, map) and their photoproducts. The crystal structure of $BrMn(CO)_2(N,N,N\text{-dapa})$ (G.J. Stor, M. Van der Vis, D.J. Stufkens, A. Oskam, J. Fraanje and K. Goubitz), 15
Cyclotrigermanes. Synthesis and thermal decomposition (T. Tsumuraya, Y. Kabe and W. Ando), 131
Photomicrocalorimetry
Photomicrocalorimetry: photosubstitution of carbonyl by phosphites in $[Mn(\eta^5\text{-}C_5H_4CH_3)(CO)_3]$ (P.B. Dias, C. Teixeira, A.R. Dias, J. De Alencar Simoni and J.A. Martinho Simões), 111
Photosubstitution
Photomicrocalorimetry: photosubstitution of carbonyl by phosphites in $[Mn(\eta^5\text{-}C_5H_4CH_3)(CO)_3]$ (P.B. Dias, C. Teixeira, A.R. Dias, J. De Alencar Simoni and J.A. Martinho Simões), 111
Polymer
New aryltellurium(II) diorganophosphinodithioates. Crystal structure of red (294 K) and yellow (173 K) $^1_\infty[PhTeS(S)PPh_2]$, a supramolecular polymer displaying an unusual coordination pattern of the phosphinodithioato ligand (A. Silvestru, I. Haiduc, K.H. Ebert, H.J. Breunig and D.B. Sowerby), 253

Rhenium
Coordination of the potentially tridentate ligands 2,6-diacetylpyridine-bis(anil) (dapa) and 2-(2-(2′-methylidenepyridyl)-aminoethyl)pyridine (map) in the complexes *fac*-$BrMn(CO)_3L$, *fac*-$(CO)_5MM'(CO)_3L$ (M, M′ = Mn, Re; L = dapa, map) and their photoproducts. The crystal structure of $BrMn(CO)_2(N,N,N\text{-dapa})$ (G.J. Stor, M. Van der Vis, D.J. Stufkens, A. Oskam, J. Fraanje and K. Goubitz), 15
Rhodium
Asymmetrische Katalyse. IV. Hydrosilylierung von Acetophenon mit Pyrrolin-2,5-dion/-modifizierten $[Rh(COD)Cl]_2$-Katalysatoren (A. Tillack, M. Michalik, D. Fenske und H. Goesmann), 85
Bimetallic reactivity: unusual change in the coordination mode of the bridging ligands arising from an oxidative addition process (M.A. Ciriano, J.J. Pérez-Torrente, F.J. Lahoz and L.A. Oro), 53
Formation of stable cationic (cyclooctadiene)Rhodium(I) complexes containing thiophene ligands (J.R. Polam and L.C. Porter), 1
Synthesis and characterisation of metal complexes of ether carbaboranes. Molecular structures of d^6 ML_3, d^8 ML_2 and d^{10} ML complexes of mono- and di-ether C_2B_9 carbaborane

ligands, showing the progressive importance of secondary M...O bonding (K.F. Shaw, B.D. Reid and A.J. Welch), 207
Synthesis and structural characterization of $[N(PPh_3)_2][H_2Ru_3Rh(CO)_{12}]$ (H.J. Kakkonen, M. Ahlgrèn, T.A. Pakkanen and J. Pursiainen), 279

Ruthenium
Effects of chelate ring rigidity on intramolecular hydrogen exchange in hydrido(dihydrogen)bis(diphosphine)ruthenium(II) ions $[RuH(\eta^2\text{-}H_2)(\text{diphosphine})_2]^+$ (diphosphine = binap and dpbp) (M. Ogasawara and M. Saburi), 7
Hydrogenolysis of carbon–chlorine bonds in carbon tetrachloride and trichlorofluoromethane in the presence of catalytic quantities of tris(triphenylphosphine) ruthenium(II) dichloride (S. Xie, E.M. Georgiev, D.M. Roundhill and K. Troev), 39
Reactions of coordinated tetrafluoroethylene with halogens. Synthesis of σ-bonded halotetrafluoroethyl complexes of ruthenium(II) and osmium(II) and the structure of $OsI(C_2F_4I)(CO)_2(PPh_3)_2$ (A.K. Burrell, G.R. Clark, C.E.F. Rickard, W.R. Roper and D.C. Ware), 271
Ruthenium(II) σ-acetylide complexes; monomers, dimers and polymers (C.W. Faulkner, S.L. Ingham, M.S. Khan, J. Lewis, N.J. Long and P.R. Raithby), 139
Synthesis and characterisation of metal complexes of ether carbaboranes. Molecular structures of d^6 ML_3, d^8 ML_2 and d^{10} ML complexes of mono- and di-ether C_2B_9 carbaborane ligands, showing the progressive importance of secondary M...O bonding (K.F. Shaw, B.D. Reid and A.J. Welch), 207
Synthesis and structural characterization of $[N(PPh_3)_2][H_2Ru_3Rh(CO)_{12}]$ (H.J. Kakkonen, M. Ahlgrèn, T.A. Pakkanen and J. Pursiainen), 279

Samarium
2,4-Dimethylpentadienyl complexes of neodymium, samarium and ytterbium (D. Baudry, F. Nief and L. Ricard), 125

Silacylic compounds
Lithium-bis(silyl)hydrazide, Tris(silyl)hydrazine und 1,2-Diaza-3,5-disilacyclopentane (K. Bode, C. Drost, C. Jäger, U. Klingebiel, M. Noltemeyer und Z. Zak), 285

Silane
Asymmetrische Katalyse. IV. Hydrosilylierung von Acetophenon mit Pyrrolin-2,5-dion/-modifizierten $[Rh(COD)Cl]_2$-Katalysatoren (A. Tillack, M. Michalik, D. Fenske und H. Goesmann), 85

Silatrane
Synthesis and structure of silylmethylsilatranes $RR'R''SiCH_2\text{-}\overline{Si(OCH_2CH_2)_3N}$ (V. Gevorgyan, L. Borisova, A. Vjater, J. Popelis, S. Belyakov and E. Lukevics), 73

Silicon
Lithium-bis(silyl)hydrazide, Tris(silyl)hydrazine und 1,2-Diaza-3,5-disilacyclopentane (K. Bode, C. Drost, C. Jäger, U. Klingebiel, M. Noltemeyer und Z. Zak), 285
Synthesis and reactions of silylcarbamates with bulky substituents (M. Mörtl, D. Knausz, Zs. Kolos, L. Szakács and B. Csákvári), 183
Synthesis and structure of silylmethylsilatranes $RR'R''SiCH_2\text{-}\overline{Si(OCH_2CH_2)_3N}$ (V. Gevorgyan, L. Borisova, A. Vjater, J. Popelis, S. Belyakov and E. Lukevics), 73

Spectroscopy
Oligosilane mit Fe- oder Mo-Komplexsubstituenten (B. Stadelmann, P. Lassacher, H. Stüger und E. Hengge), 201

Structure
η^5-Pentabenzylcyclopentadienyl derivatives of titanium (IV), (III), and (II). The crystal structures of $(\eta^5\text{-}C_5H_5)(\eta^5\text{-}C_5Bz_5)TiCl_2$ (Bz = benzyl), $(\eta^5\text{-}C_5H_5)(\eta^5\text{-}C_5Bz_5)TiCl$, and $(\eta^5\text{-}C_5H_5)(\eta^5\text{-}C_5Bz_5)Ti[\eta^2\text{-}(CSiMe_3)_2]$ (G. Schmid, U. Thewalt, M. Polášek, K. Mach and P. Sedmera), 231
Hydroboration of carbon–tungsten triple bonds: crystal structures of the η^3-benzyl complexes $(\eta\text{-}C_5H_5)(CO)_2W\{\eta^3\text{-}CH[B(C_2H_5)_2]C_6H_4Me\text{-}4\}$ and $(\eta\text{-}C_5Me_5)(CO)_2W\{\eta^3\text{-}CH[B(C_2H_5)_2]C_6H_4Me\text{-}4\}$ (H. Wadepohl, G.P. Elliott, H. Pritzkow, F.G.A. Stone and A. Wolf), 243
Phosphinomethanid-Komplexe der Lanthanoide (H.H. Karsch, G. Ferazin, H. Kooijman, O. Steigelmann, A. Schier, P. Bissinger und W. Hiller), 151

Substituent effects
Bismuth(III)-catalyzed oxidative cleavage of aryl epoxides: substituent effects on the kinetics of the oxidation reaction (V. Le Boisselier, E. Duñach and M. Postel), 119

Supramolecular association
New aryltellurium(II) diorganophosphinodithioates. Crystal structure of red (294 K) and yellow (173 K) $^1_\infty[PhTeS(S)PPh_2]$, a supramolecular polymer displaying an unusual coordination pattern of the phosphinodithioato ligand (A. Silvestru, I. Haiduc, K.H. Ebert, H.J. Breunig and D.B. Sowerby), 253

Synthesis
Synthesis and characterization of bridged half-sandwich amides of titanium and zirconium (W.A. Herrmann and M.J.A. Morawietz), 169

Tellurium
New aryltellurium(II) diorganophosphinodithioates. Crystal structure of red (294 K) and yellow (173 K) $^1_\infty[PhTeS(S)PPh_2]$, a supramolecular polymer displaying an unusual coordination pattern of the phosphinodithioato ligand (A. Silvestru, I. Haiduc, K.H. Ebert, H.J. Breunig and D.B. Sowerby), 253
Synthesis and coordination chemistry of tellurium alkynes (H. Keller, J.C. Daran and H. Lang), 63

Tetrafluorethylene
Reactions of coordinated tetrafluoroethylene with halogens. Synthesis of σ-bonded halotetrafluoroethyl complexes of ruthenium(II) and osmium(II) and the structure of $OsI(C_2F_4I)(CO)_2(PPh_3)_2$ (A.K. Burrell, G.R. Clark, C.E.F. Rickard, W.R. Roper and D.C. Ware), 271

Tetrazole
Crystal structure of triphenyl(5-mercapto-1-phenyl-1,2,3,4-tetrazolato)tin(IV) (J. Bravo, M.B. Cordero, J.S. Casas, A. Sánchez, J. Sordo, E.E. Castellano and J. Zukerman-Schpector), 147

Thermochemistry
Photomicrocalorimetry: photosubstitution of carbonyl by phosphites in $[Mn(\eta^5\text{-}C_5H_4CH_3)(CO)_3]$ (P.B. Dias, C. Teixeira, A.R. Dias, J. De Alencar Simoni and J.A. Martinho Simões), 111

Thiopenes
Formation of stable cationic (cyclooctadiene)Rhodium(I) complexes containing thiophene ligands (J.R. Polam and L.C. Porter), 1

Tin
Crystal structure of triphenyl(5-mercapto-1-phenyl-1,2,3,4-tetrazolato)tin(IV) (J. Bravo, M.B. Cordero, J.S. Casas, A. Sánchez, J. Sordo, E.E. Castellano and J. Zukerman-Schpector), 147
Ruthenium(II) σ-acetylide complexes; monomers, dimers and polymers (C.W. Faulkner, S.L. Ingham, M.S. Khan, J. Lewis, N.J. Long and P.R. Raithby), 139
Structures of 4-tolyl 2-(triphenylstannyl)ethyl sulphone and 4-tolyl 4-(triphenylstannyl)butyl sulphone (P.J. Cox and J.L. Wardell), 221

Titanium
η^5-Pentabenzylcyclopentadienyl derivatives of titanium (IV), (III), and (II). The crystal structures of $(\eta^5\text{-}C_5H_5)(\eta^5\text{-}C_5Bz_5)TiCl_2$

(Bz = benzyl), (η^5-C_5H_5)(η^5-C_5Bz_5)TiCl, and (η^5-C_5H_5)(η^5-C_5Bz_5)Ti[η^2-$(CSiMe_3)_2$] (G. Schmid, U. Thewalt, M. Polášek, K. Mach and P. Sedmera), 231

Synthesis and characterization of bridged half-sandwich amides of titanium and zirconium (W.A. Herrmann and M.J.A. Morawietz), 169

Tungsten

Hydroboration of carbon–tungsten triple bonds: crystal structures of the η^3-benzyl complexes (η-C_5H_5)$(CO)_2$W{η^3-CH-[$B(C_2H_5)_2$]C_6H_4Me-4} and (η-C_5Me_5)$(CO)_2$W{η^3-CH-[$B(C_2H_5)_2$]C_6H_4Me-4} (H. Wadepohl, G.P. Elliott, H. Pritzkow, F.G.A. Stone and A. Wolf), 243

Kooperative Wirkung in π-Ligand-verbrückten Zweikernkomplexen. XIV. [{CpM$(CO_2)_2\mu$-($\eta^{1:1}$-Et_2NC≡CNEt_2)}] (M = Mo, W), ein zweikerniger Bis(Fischer-Carben)-Komplex mit einem 1,2-Dimetallavierring als zentralem Baustein (J. Heck, K.-A. Kriebisch, W. Massa und S. Wocadlo), 81

Uranium

Synthesis and characterisation of metal complexes of ether carbaboranes. Molecular structures of d^6 ML_3, d^8 ML_2 and d^{10} ML complexes of mono- and di-ether C_2B_9 carbaborane ligands, showing the progressive importance of secondary M...O bonding (K.F. Shaw, B.D. Reid and A.J. Welch), 207

Vinyl

Synthesis of *trans*-arylvinylboronates via a palladium catalysed cross-coupling of a vinylboronate ester with aryl halides (S.K. Stewart and A. Whiting), 293

X-ray crystal structure

Ruthenium(II) σ-acetylide complexes; monomers, dimers and polymers (C.W. Faulkner, S.L. Ingham, M.S. Khan, J. Lewis, N.J. Long and P.R. Raithby), 139

X-ray diffraction

Kooperative Wirkung in π-Ligand-verbrückten Zweikernkomplexen. XIV. [{CpM$(CO_2)_2\mu$-($\eta^{1:1}$-Et_2NC≡CNEt_2)}] (M = Mo, W), ein zweikerniger Bis(Fischer-Carben)-Komplex mit einem 1,2-Dimetallavierring als zentralem Baustein (J. Heck, K.-A. Kriebisch, W. Massa und S. Wocadlo), 81

Structures of 4-tolyl 2-(triphenylstannyl)ethyl sulphone and 4-tolyl 4-(triphenylstannyl)butyl sulphone (P.J. Cox and J.L. Wardell), 221

X-ray structure

2,4-Dimethylpentadienyl complexes of neodymium, samarium and ytterbium (D. Baudry, F. Nief and L. Ricard), 125

Bimetallic reactivity: unusual change in the coordination mode of the bridging ligands arising from an oxidative addition process (M.A. Ciriano, J.J. Pérez-Torrente, F.J. Lahoz and L.A. Oro), 53

Crystal structure of triphenyl(5-mercapto-1-phenyl-1,2,3,4-tetrazolato)tin(IV) (J. Bravo, M.B. Cordero, J.S. Casas, A. Sánchez, J. Sordo, E.E. Castellano and J. Zukerman-Schpector), 147

Ytterbium

2,4-Dimethylpentadienyl complexes of neodymium, samarium and ytterbium (D. Baudry, F. Nief and L. Ricard), 125

Zirconium

Synthesis and characterization of bridged half-sandwich amides of titanium and zirconium (W.A. Herrmann and M.J.A. Morawietz), 169